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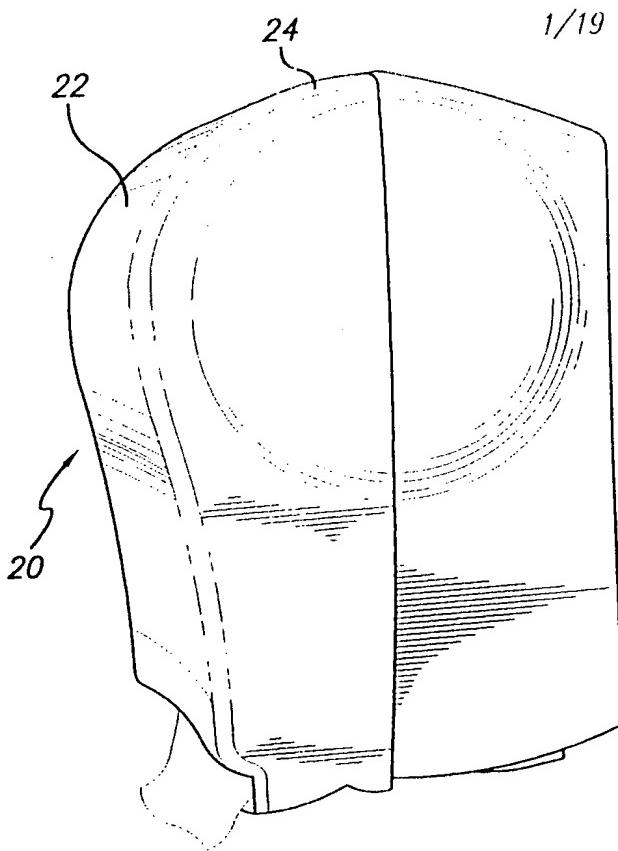


FIG. 1

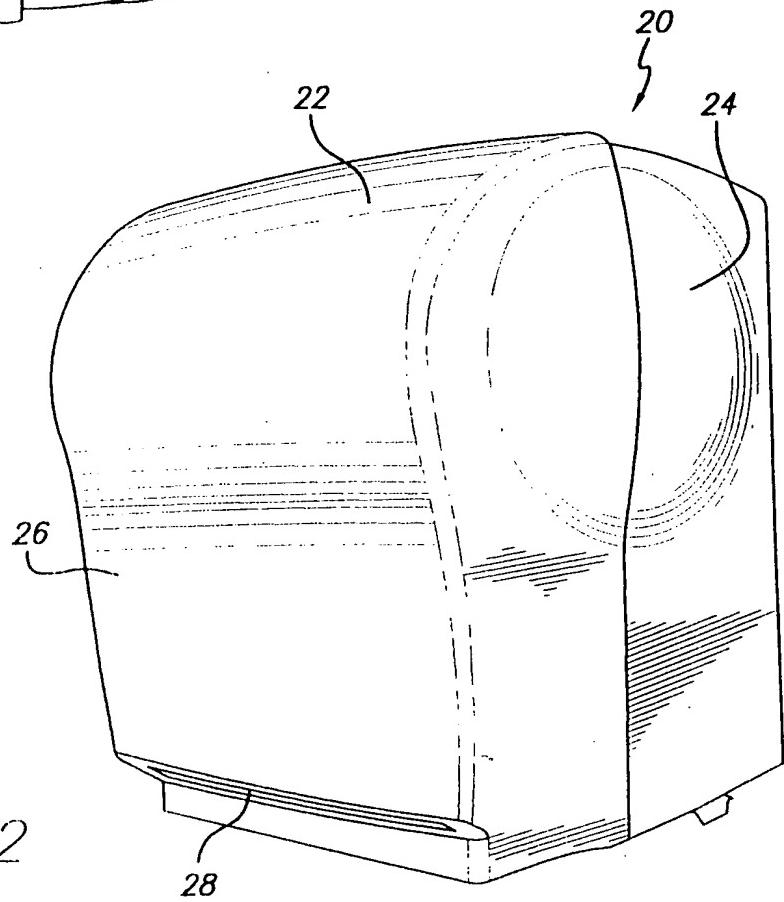


FIG. 2

FIG. 3

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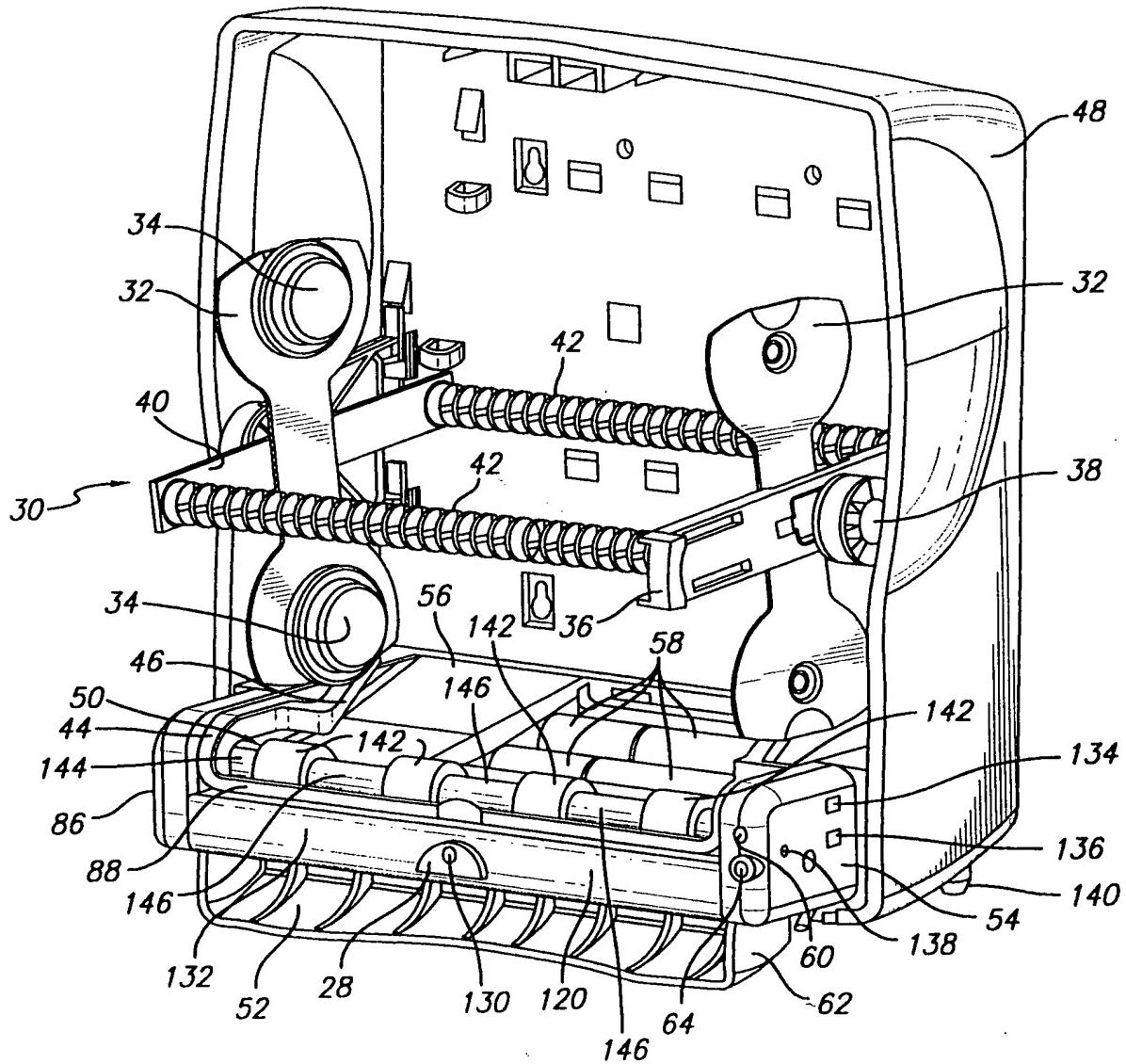
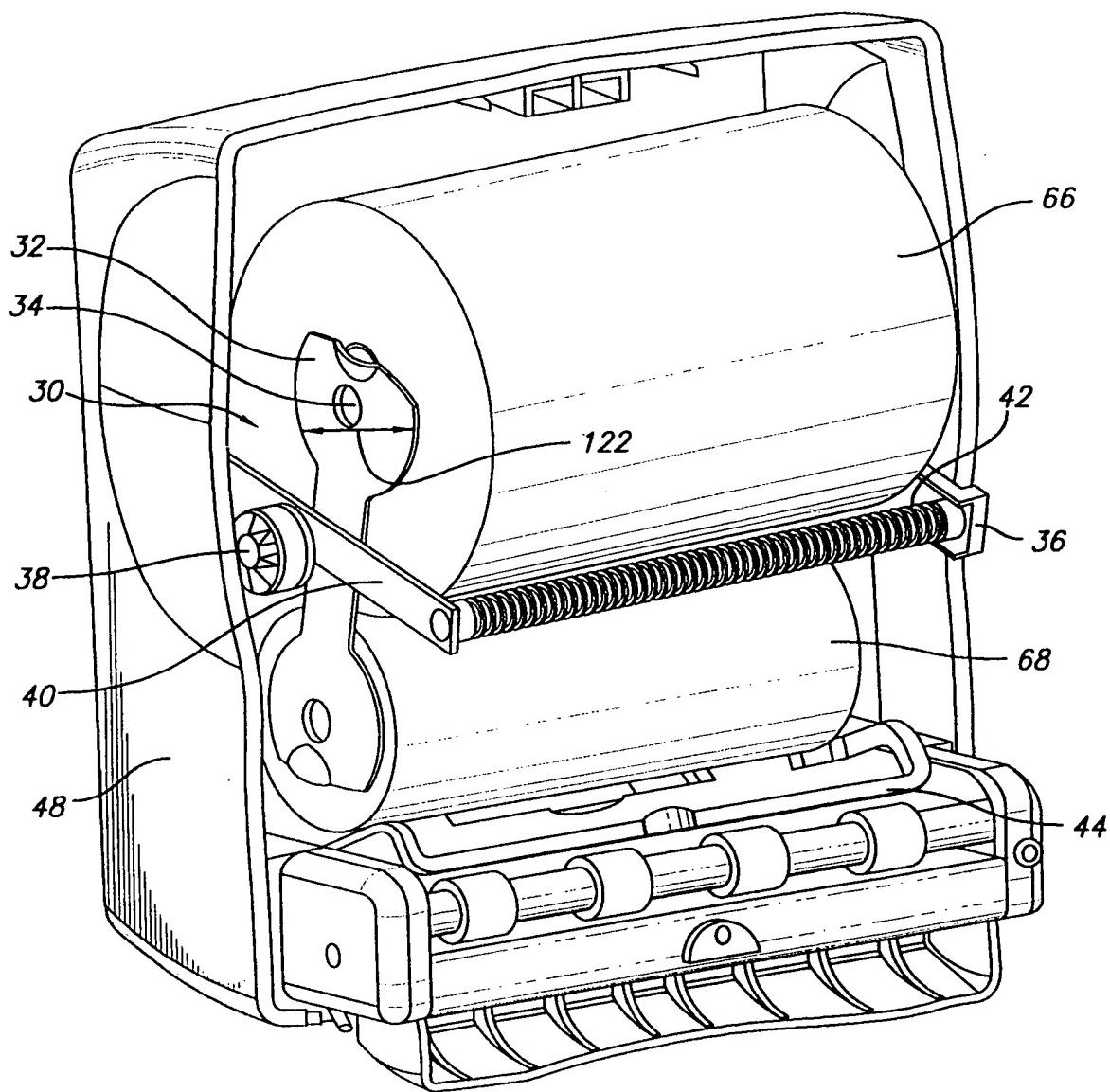
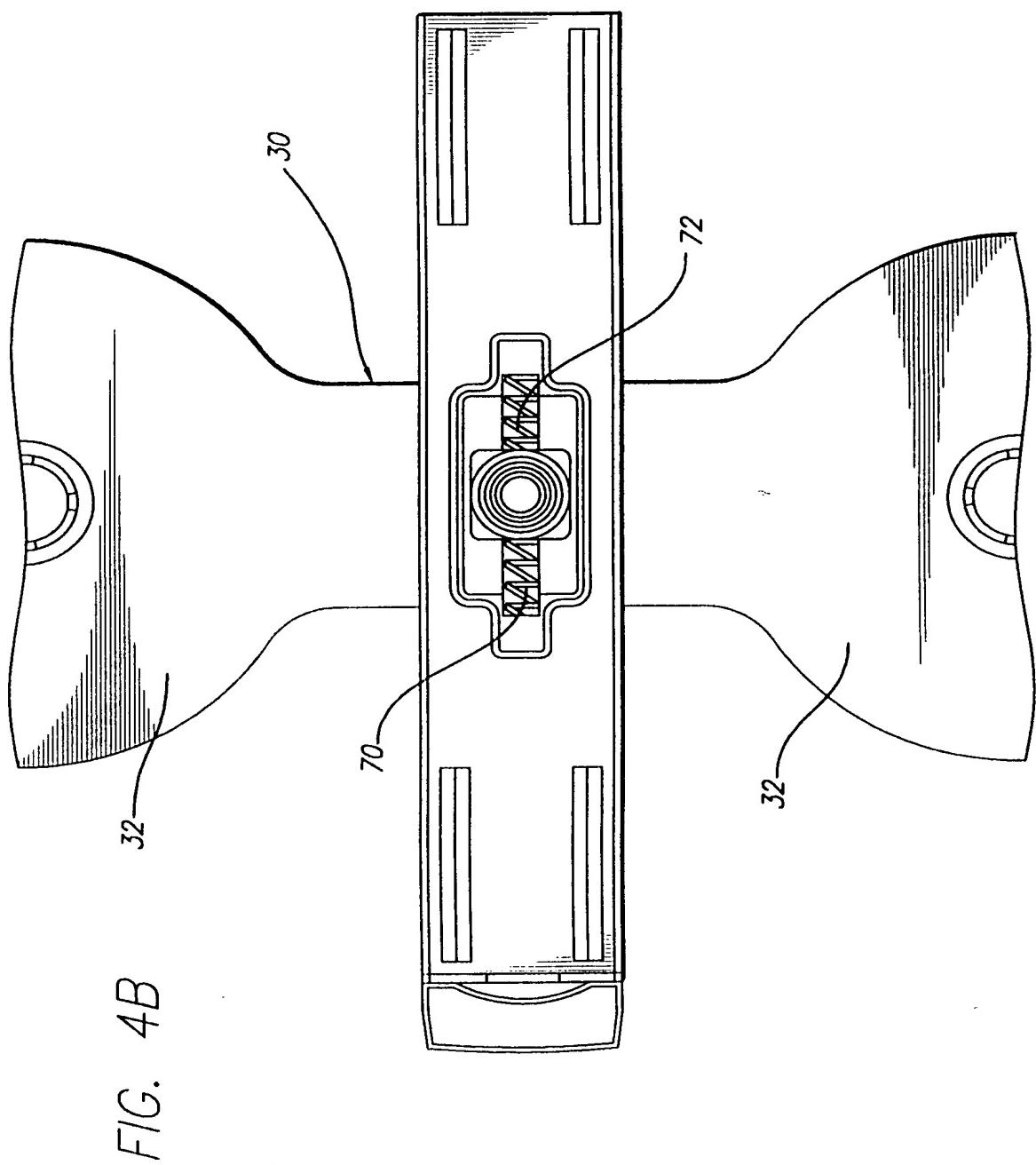


FIG. 4A



0 9 8 7 6 5 4 3 2 1 0

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FIG. 4C

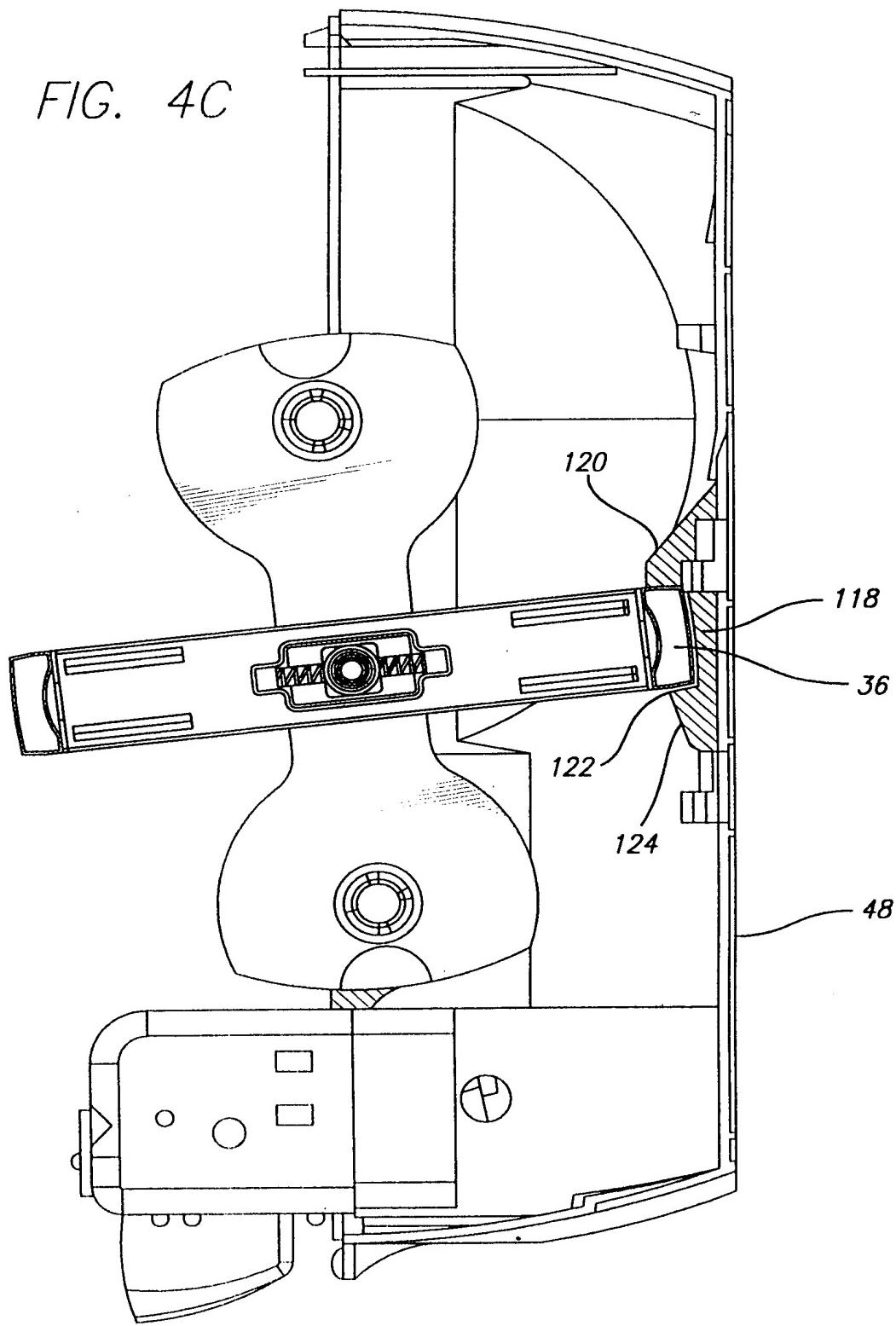


FIG. 5

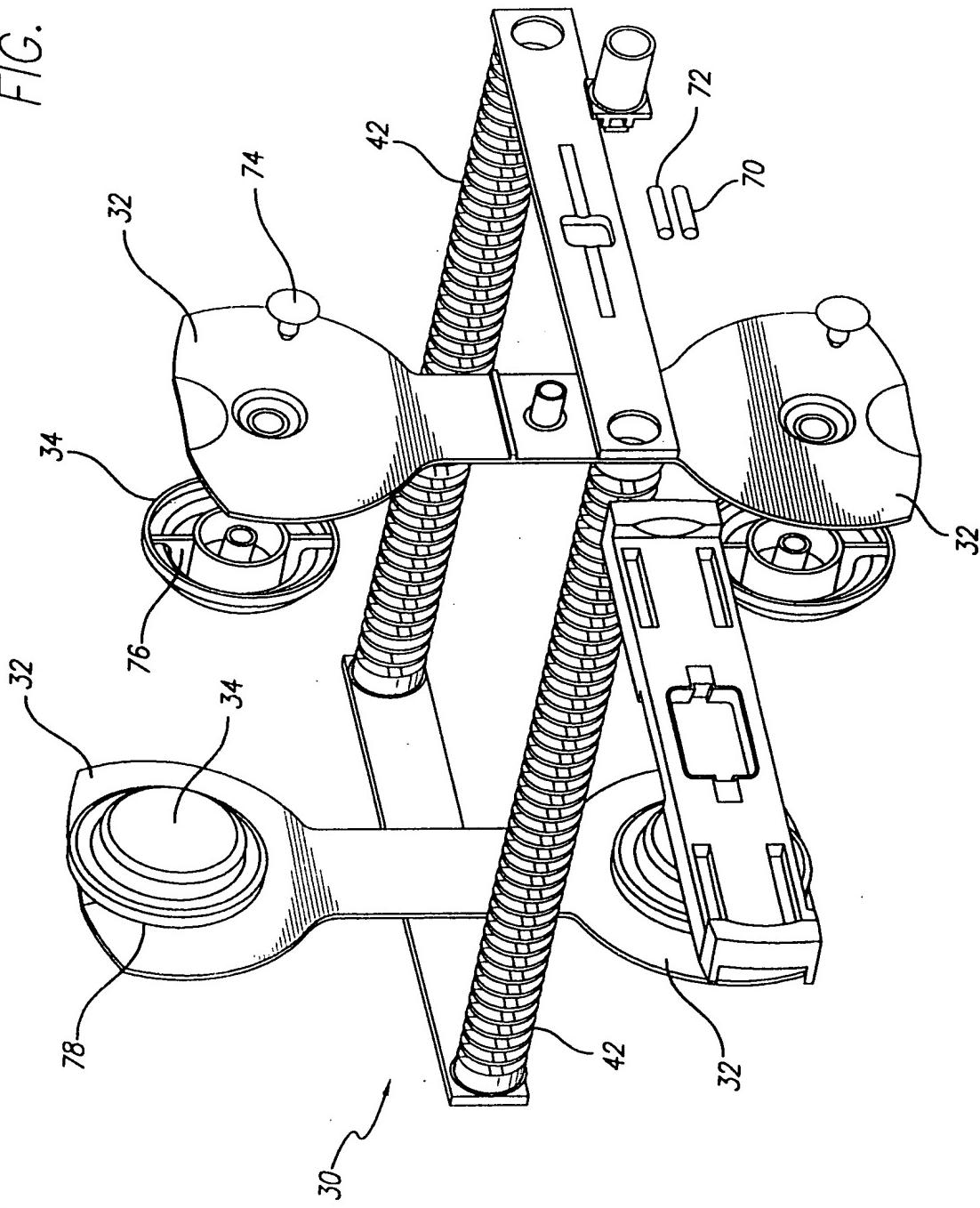
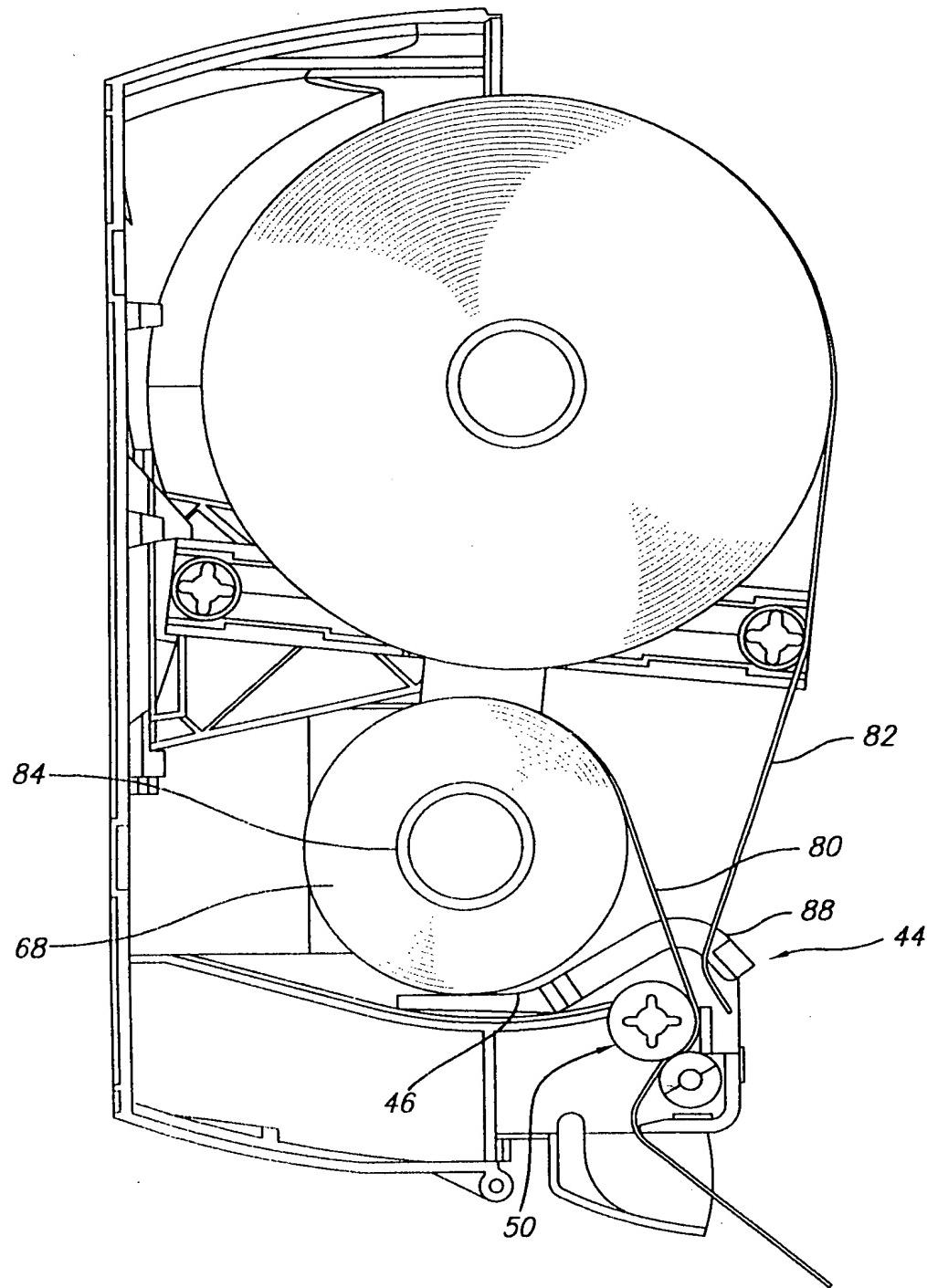
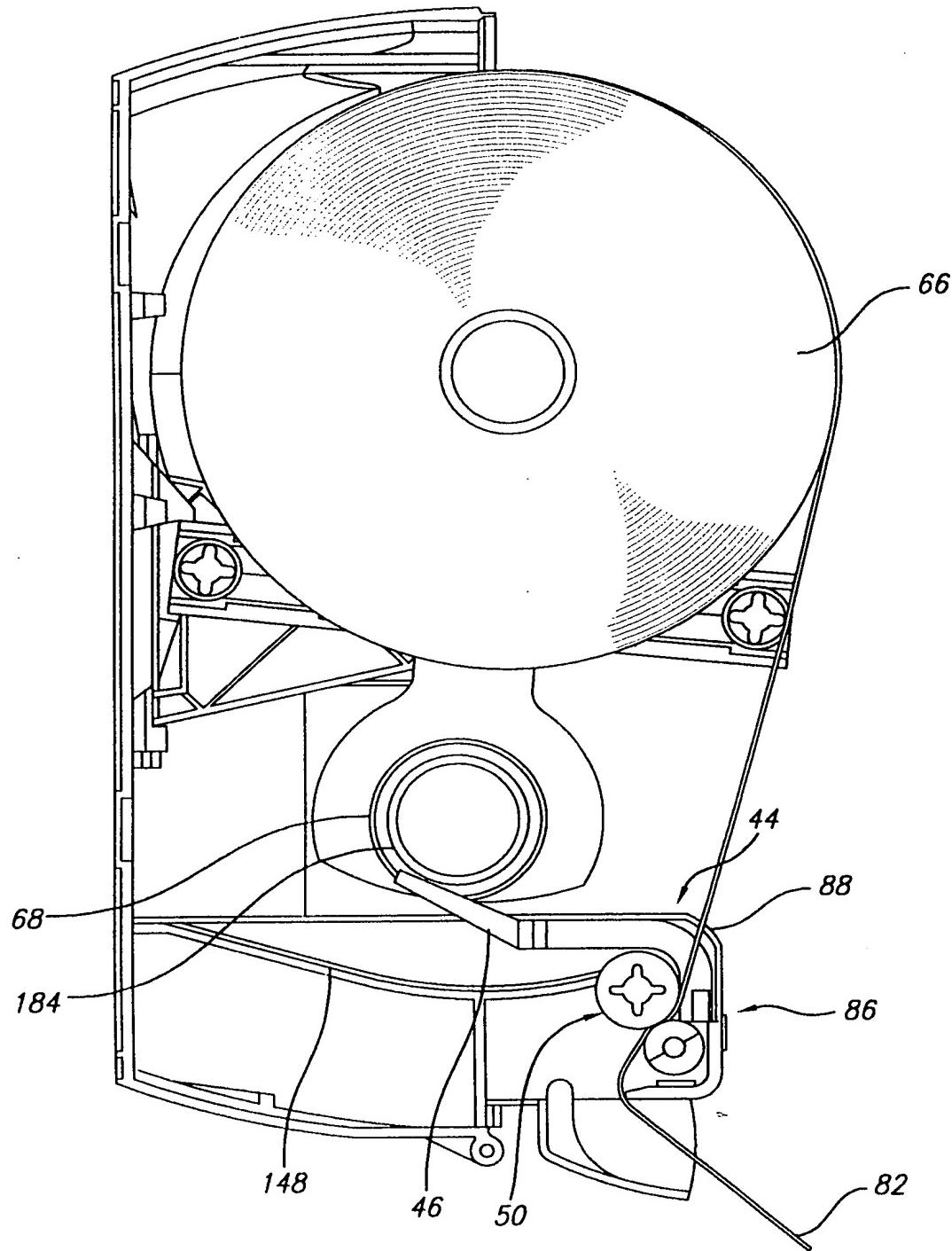


FIG. 6A



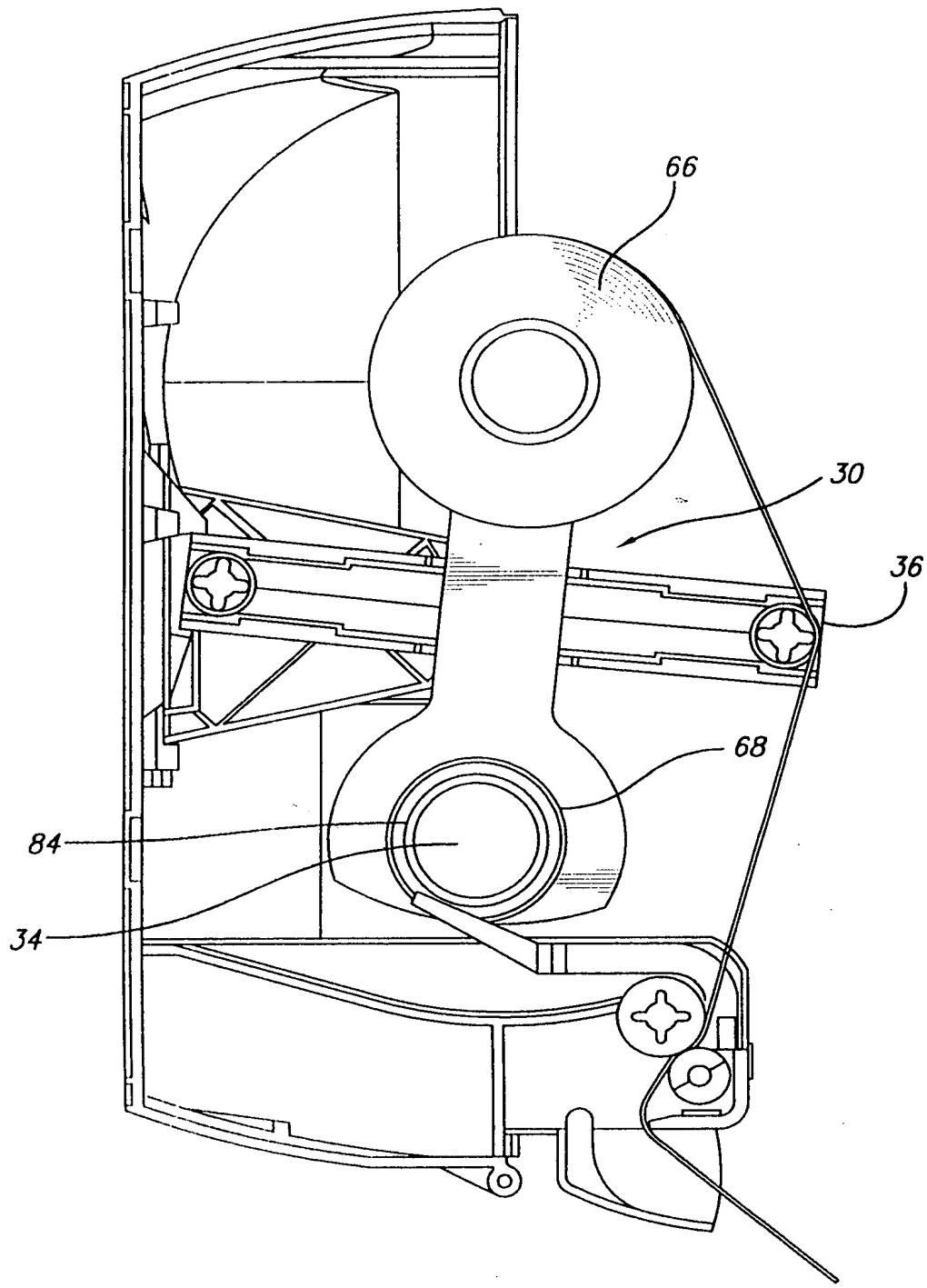
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FIG. 6B



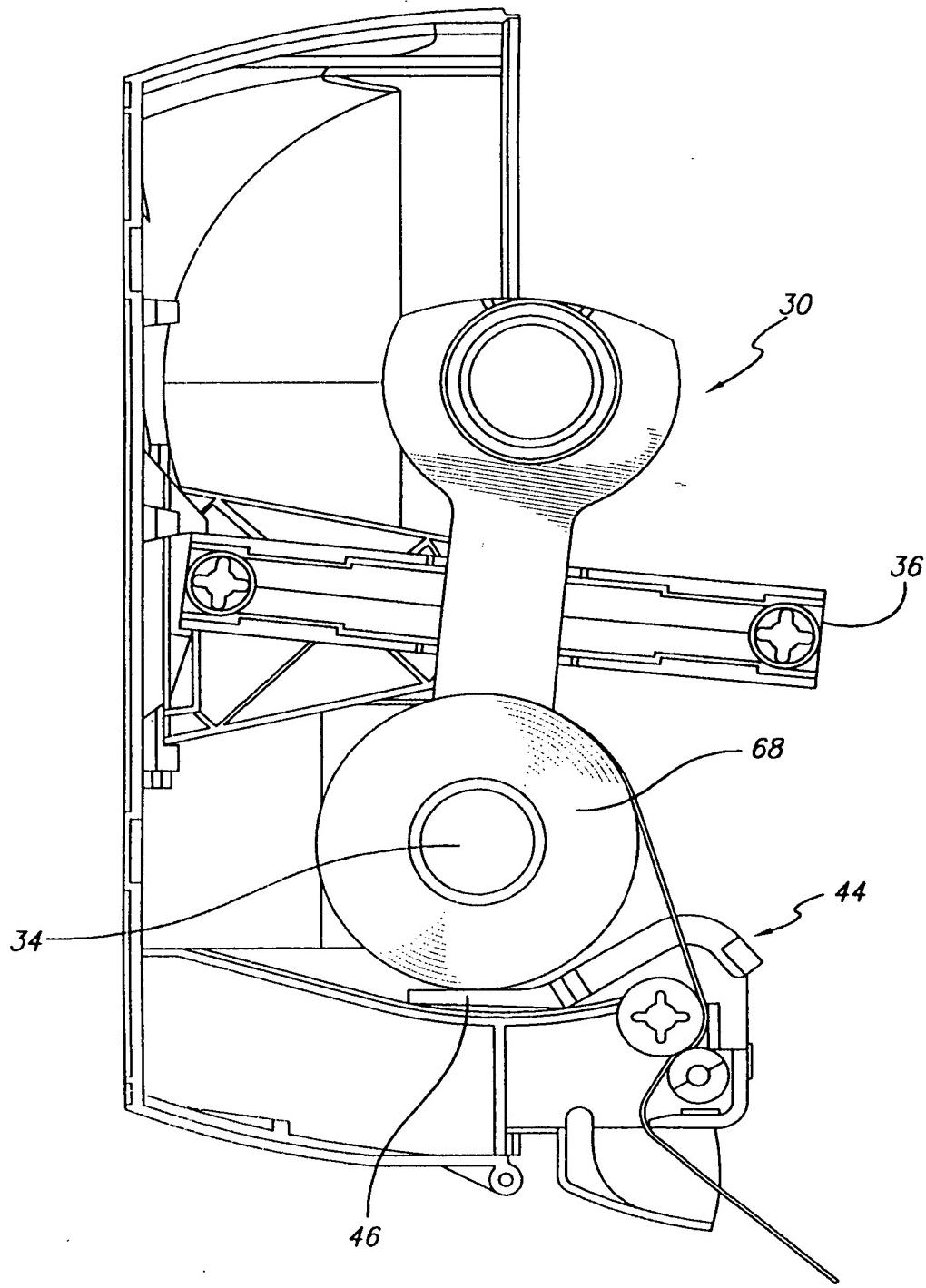
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FIG. 7A



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FIG. 7B



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FIG. 7C

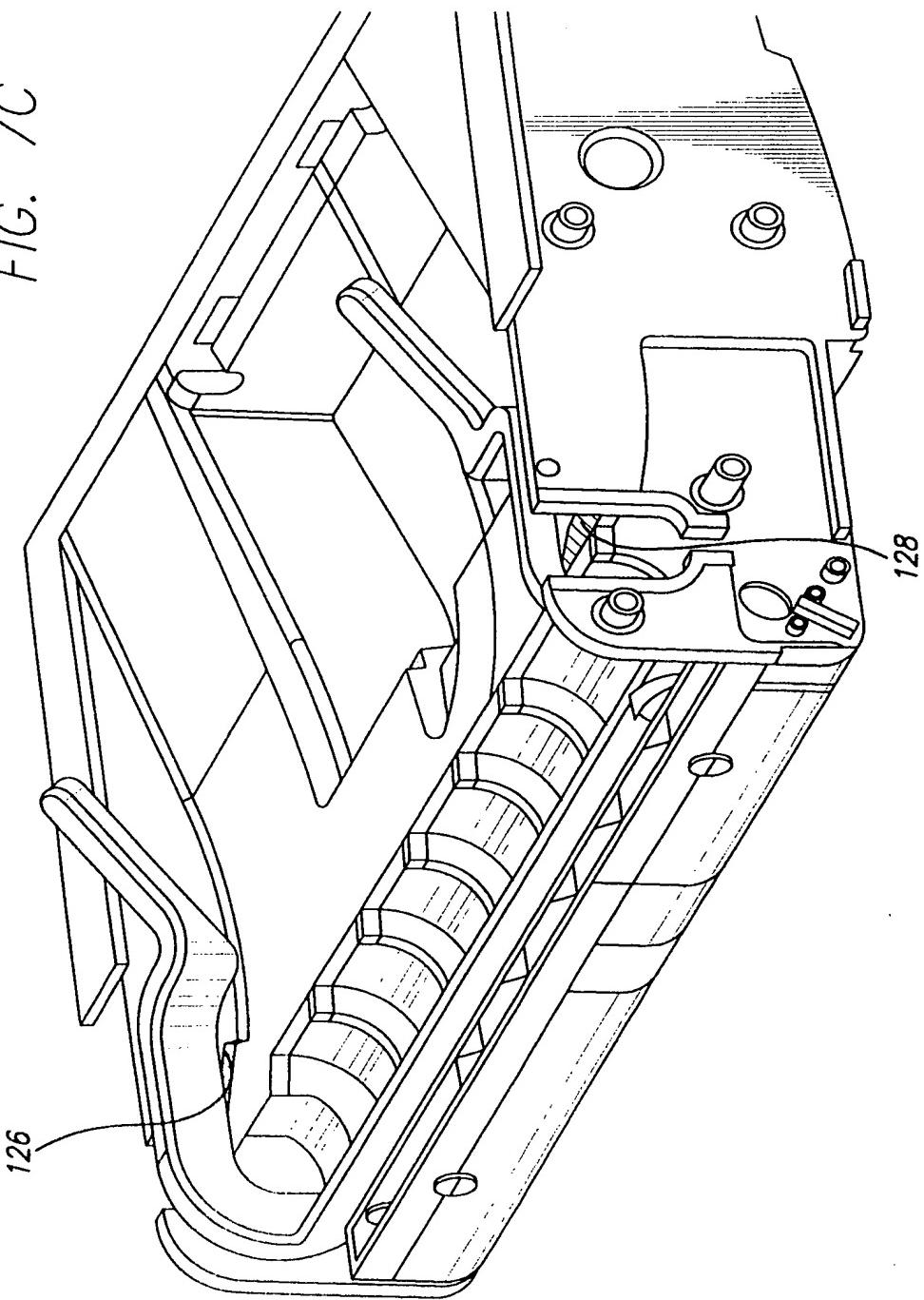


FIG. 7D

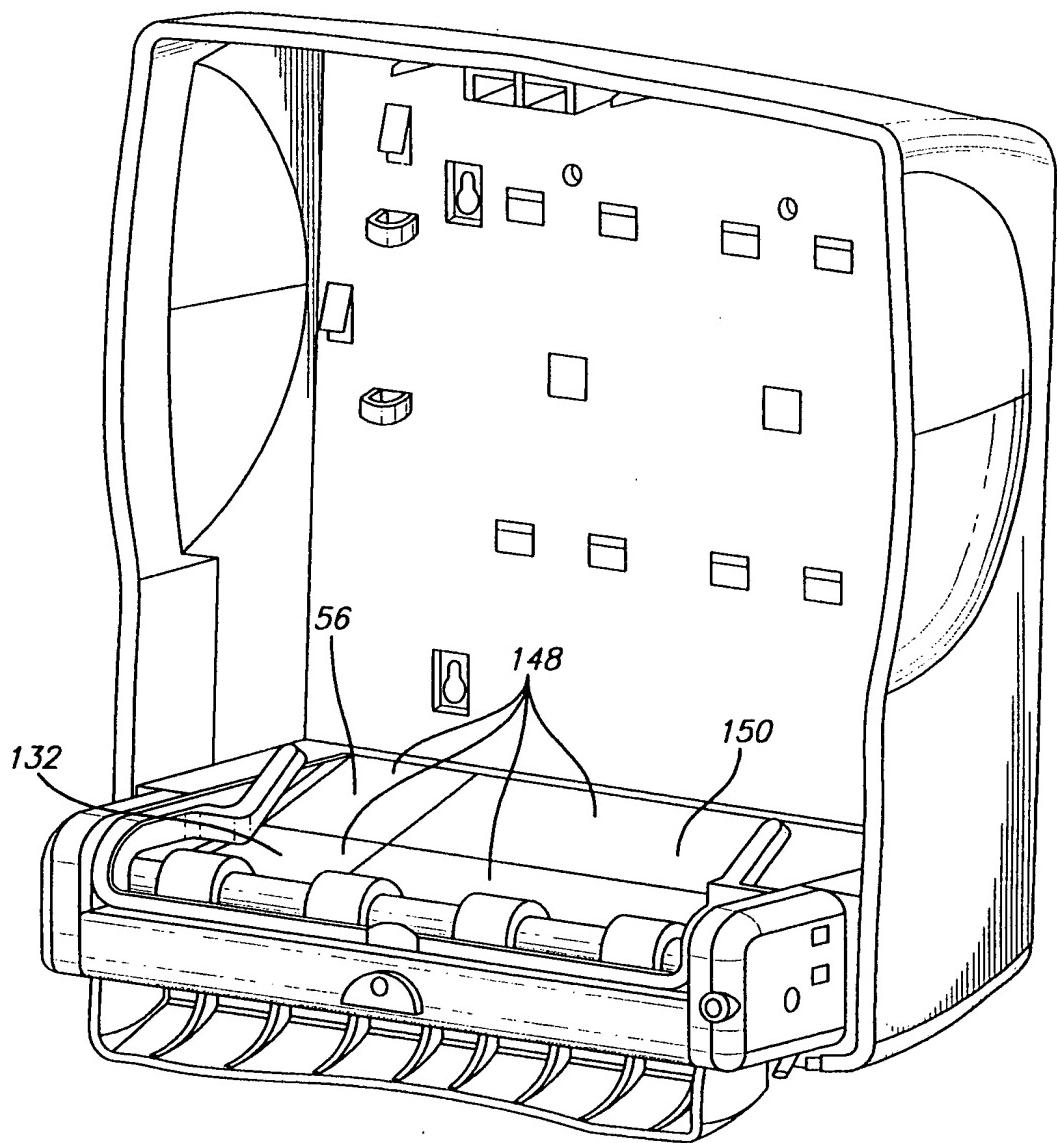


FIG. 8A

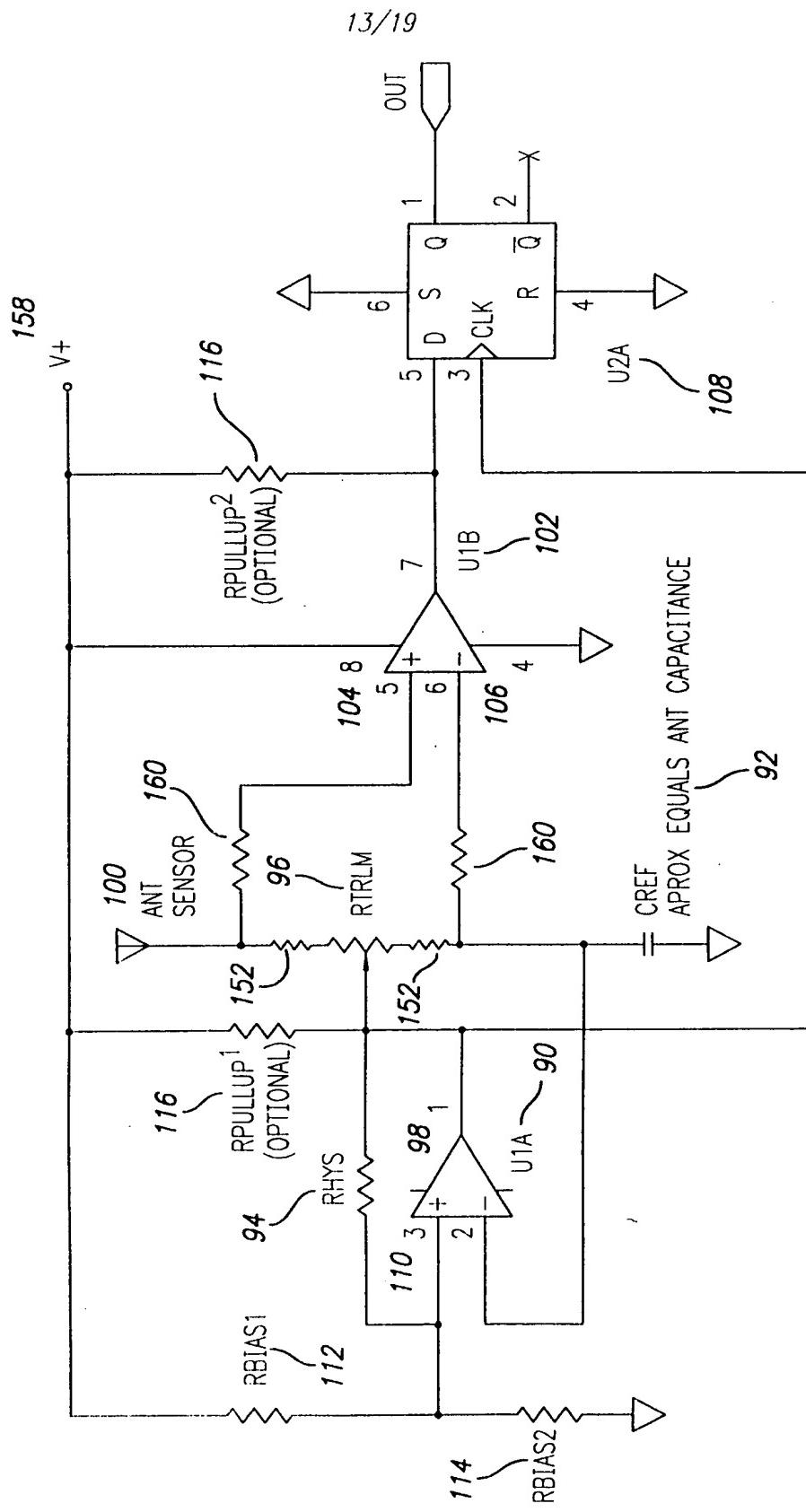


FIG. 8B
PRIOR ART

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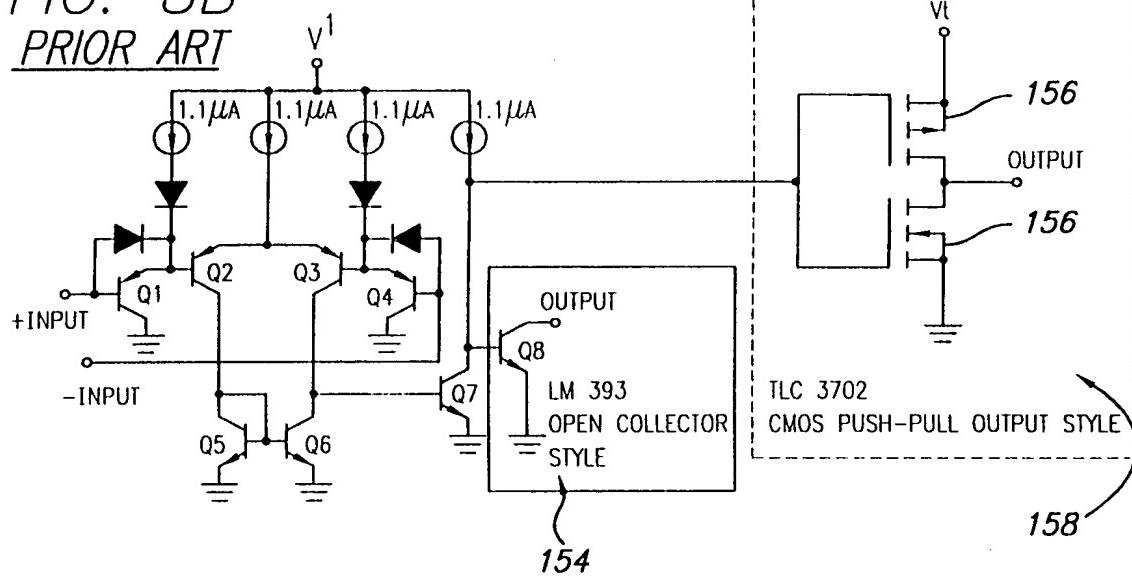


FIG. 9

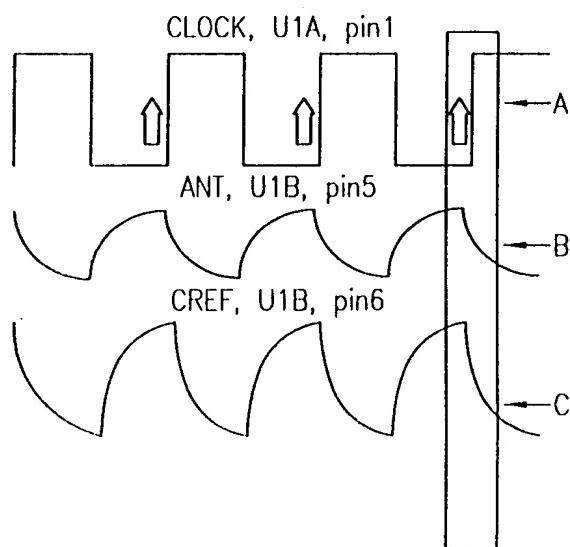
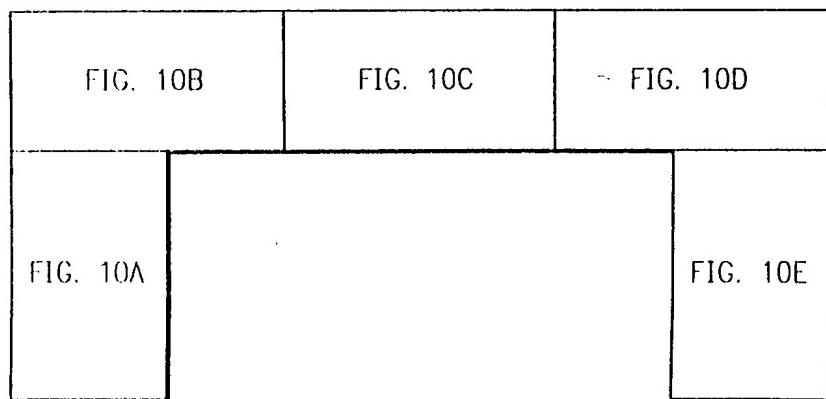


FIG. 10



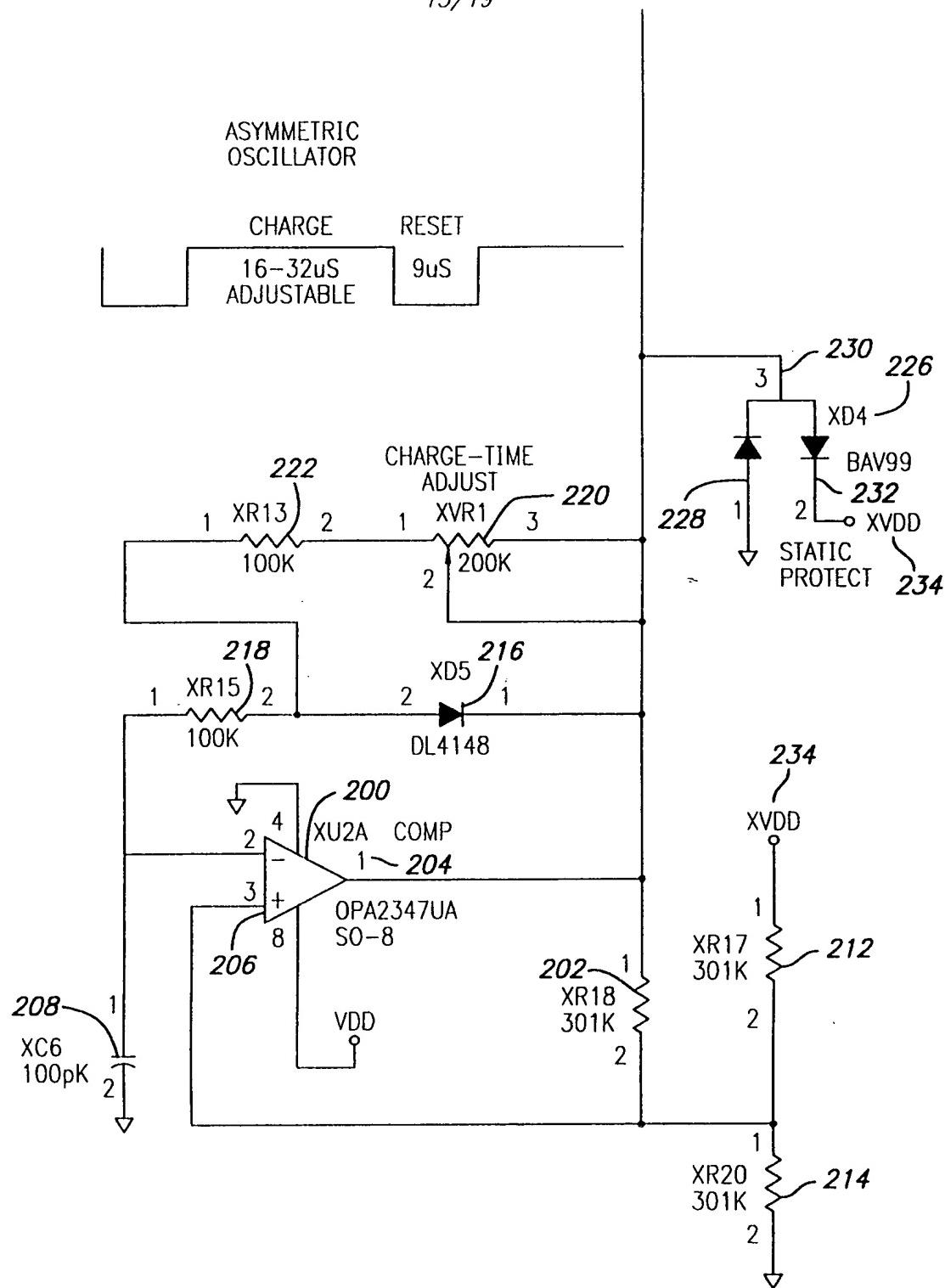


FIG. 10A

FIG. 10B

LESS EXTERNAL LOAD (LESS CAPACITANCE) CAUSES THE ANTENNA TO CHARGE TO A HIGHER VOLTAGE.

ANTENNA
SENSOR / 236
ANT1

MORE EXTERNAL LOAD (MORE CAPACITANCE) CAUSES THE ANTENNA TO CHARGE TO A LOWER VOLTAGE.

CHARGE
RESET

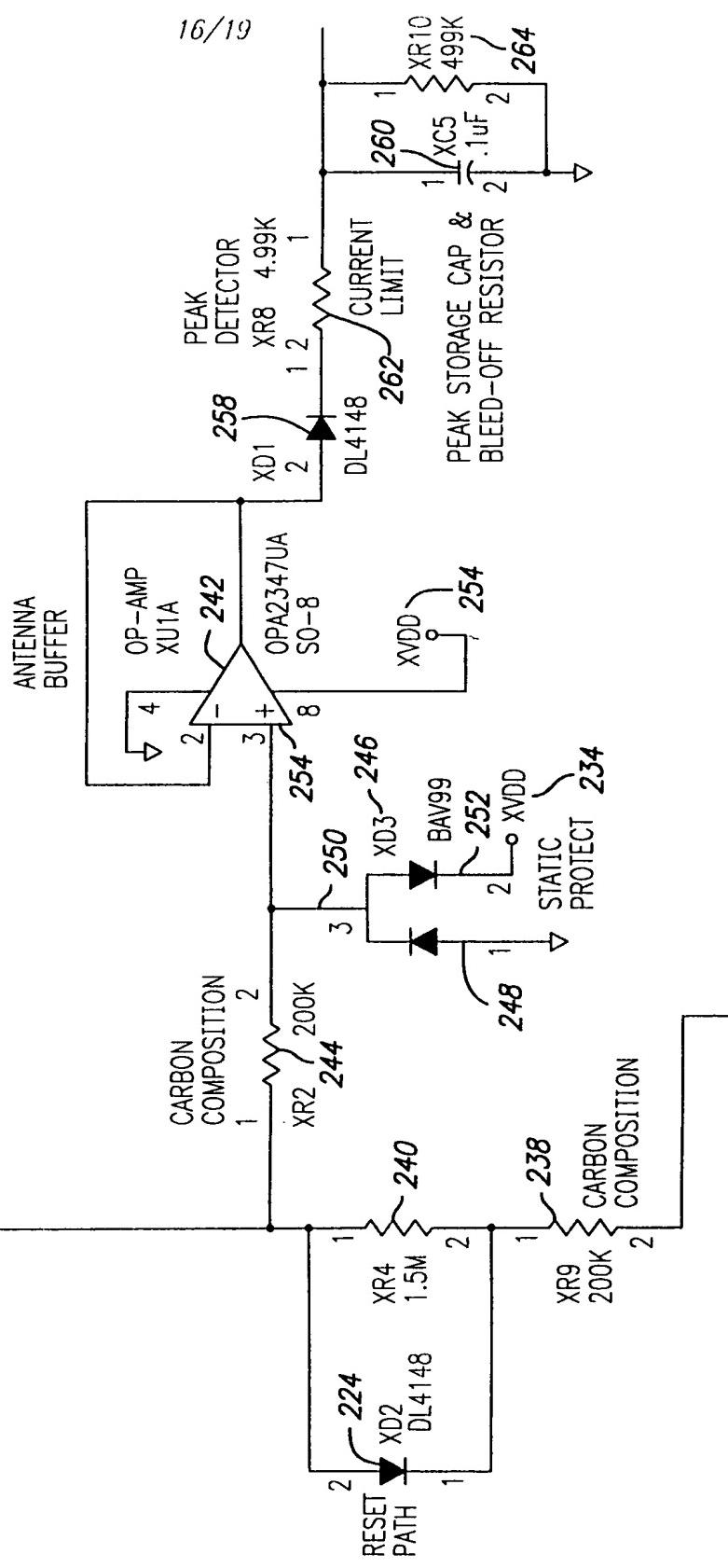


FIG. 10C

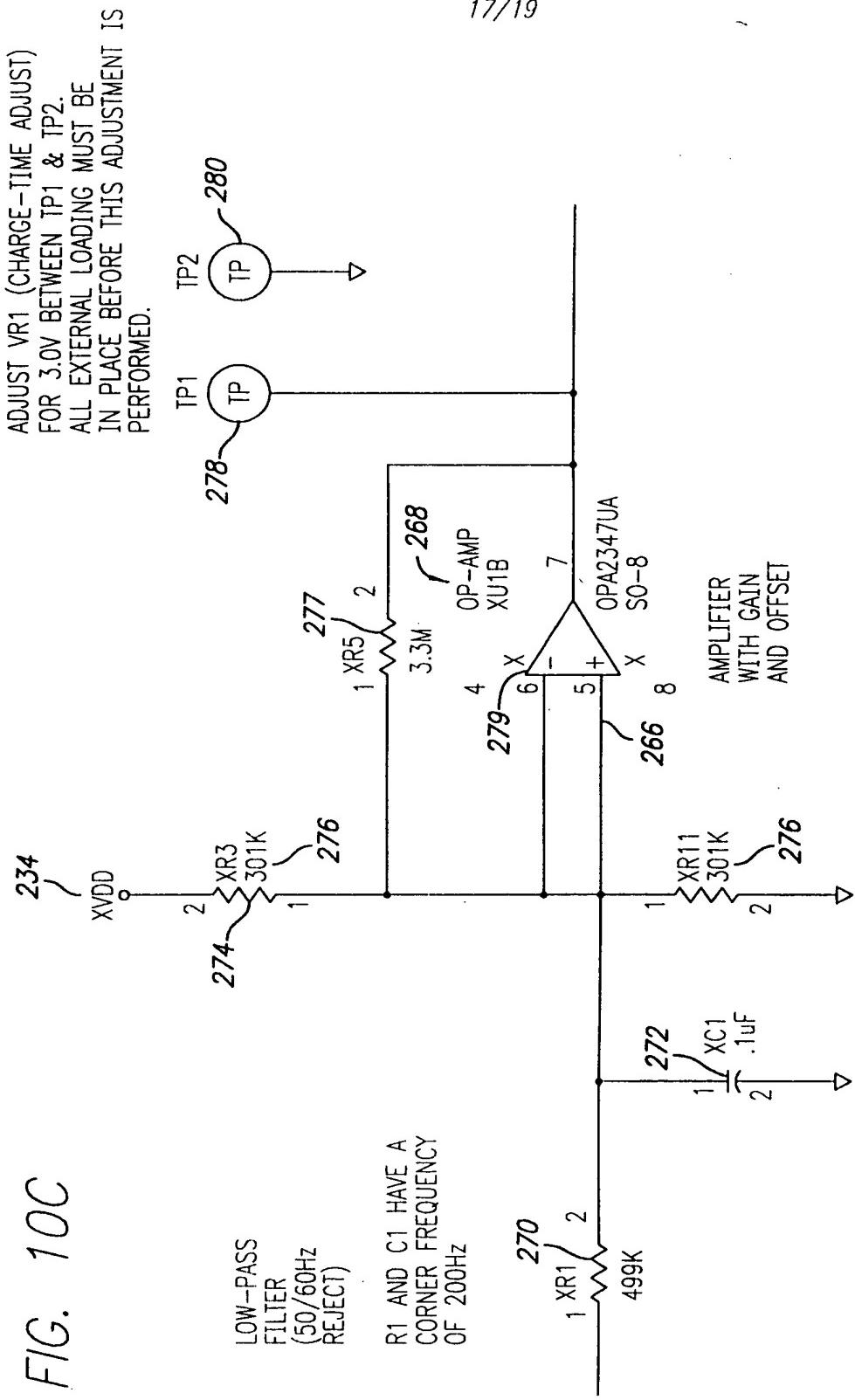


FIG. 10D

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XVDD

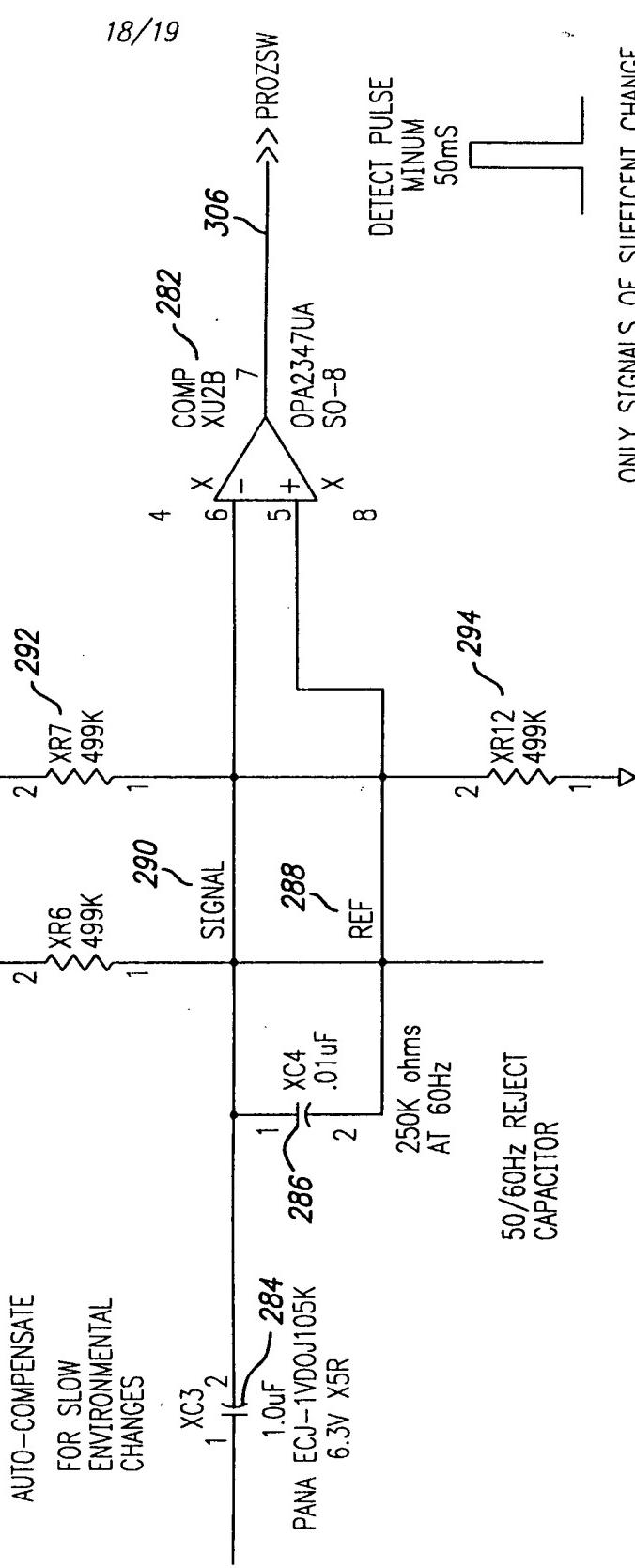
AUTO-COMPENSATE
FOR SLOW
ENVIRONMENTAL
CHANGES

284
1.0uF
PANA ECJ-1VDOU105K
6.3V X5R

XC3

290

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ONLY SIGNALS OF SUFFICIENT CHANGE
(SPEED, AMPLITUDE, AND DURATION)
WILL CAUSE AN OUTPUT PULSE.

THE 50/60HZ REJECT ALLOWS THE REF
TO TRACK WITH THE SIGNAL WHEN IN
PRESENCE OF 50/60HZ FIELDS.

CONFIDENTIAL - SECURITY INFORMATION

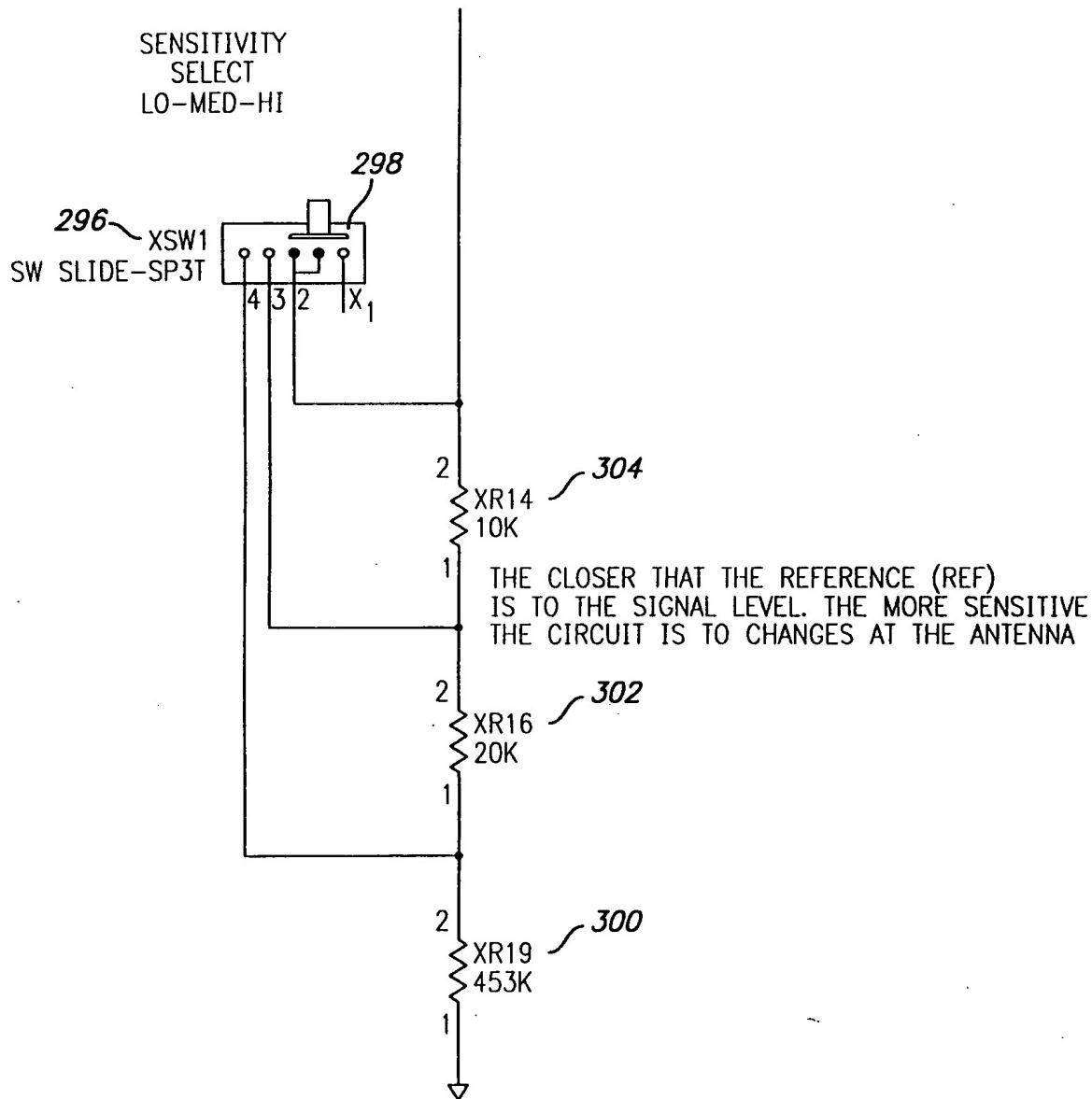


FIG. 10E